03050104-070

(Big Pine Tree Creek)

General Description

Watershed 03050104-070 is located in Kershaw County and consists primarily of ***Big Pine Tree Creek*** and its tributaries. The watershed occupies 41,885 acres of the Sandhills region of South Carolina. The predominant soil types consist of an association of the Lakeland-Wagram series. The erodibility of the soil (K) averages 0.10 and the slope of the terrain averages 10%, with a range of 0-25%. Land use/land cover in the watershed includes: 53.4% forested land, 25.9% agricultural land, 10.9% urban land, 7.0% scrub/shrub land, 1.5% forested wetland, and 1.3% water.

Big Pine Tree Creek flows through Llewellyn Millpond and accepts drainage from Beaverdam Branch, Thoroughfare Branch, Hyco Branch, and Berkeley Branch before flowing through Adams Mill Pond in Goodale State Park and Hermitage Mill Pond (Thomas Branch). Downstream of Hermitage Mill Pond, Little Pine Tree Creek (Kendall Lake) joins Big Pine Tree Creek in the City of Camden and flows into the Wateree River. There are a total of 68.4 stream miles and 549.3 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

Station #	Type	Class	Description
CW-223	S/W/BIO	FW	LITTLE PINE TREE CREEK AT S-28-132
CL-078	W	FW	ADAMS MILLPOND, FOREBAY EQUIDISTANT FROM DAM TO SHORE
CW-021	W/INT	FW	BIG PINE TREE CREEK AT US 521, NW OF BRIDGE

Little Pine Tree Creek (CW-223) – Aquatic life uses are fully supported based on macroinvertebrate community data; however, there is a significant increasing trend in turbidity. There is a significant increasing trend in pH. This is a blackwater system, characterized by naturally low pH conditions. Although pH excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Recreational uses are partially supported due to fecal coliform bacteria excursions.

Adams Mill Pond (CL-078) – Aquatic life and recreational uses are fully supported. This is a blackwater system, characterized by naturally low pH conditions. Although pH excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations.

Big Pine Tree Creek (CW-021) - Aquatic life and recreational uses are fully supported. This is a blackwater system, characterized by naturally low pH conditions. Although pH excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Significant decreasing trends in five-day biochemical oxygen demand and turbidity, and a significant increasing trend in dissolved oxygen concentration suggest improving conditions for these parameters.

Natural Swimming Areas

FACILITY NAME *RECEIVING STREAM*	*PERMIT #* *STATUS*
GOODALE STATE PARK GOODALE STATE PARK LAKE	28-N01 ACTIVE

NPDES Program

Active NPDES Facilities

RECEIVING STREAM *FACILITY NAME* *PERMITTED FLOW @ PIPE (MGD)*	*NPDES#* *TYPE* *COMMENT*
BIG PINE TREE CREEK DEROYAL TEXTILES PIPE #: 001 FLOW: 0.1354	SC0002518 MAJOR INDUSTRIAL
LITTLE PINE TREE CREEK KENDALL CO./WATEREE PLT. PIPE #: 001,002 FLOW: M/R	SCG250049 MINOR INDUSTRIAL (SC0040266)

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME *FACILITY TYPE*	*PERMIT #* *STATUS*
KERSHAW COUNTY LANDFILL MUNICIPAL	281001-1201 (DWP-016, DWP-042) CLOSED
KERSHAW COUNTY LANDFILL MUNICIPAL	281001-1101 (DWP-035) CLOSED
OLD KERSHAW LANDFILL (DUMP) ----------	-------- CLOSED
KENDALL CO. PLANT LANDFILL INDUSTRIAL	IWP-202 --------
CANTEY LAND CLEARING LANDFILL C&D	282618-1701 CLOSED
FAIR STREET DUMP ---------	------- CLOSED
DICEY CREEK DUMP ---------	------- CLOSED

Land Application Sites

LAND APPLICATION *FACILITY NAME*	*PERMIT #* *TYPE*

SLUDGE APPLICATION	ND0075272
DEROYAL TEXTILES INC.	INDUSTRIAL

Mining Activities

MINING COMPANY ***MINE NAME***	***PERMIT #*** ***MINERAL***
PALMETTO BRICK COMPANY YOUNG MINE	0629-55 KAOLIN
PALMETTO BRICK COMPANY HINES MINE	0995-55 KAOLI
JOSEPH K. MCCASKILL MCCASKILL MINE	1298-55 SAND

Growth Potential

There is a high potential for continued residential, commercial, and industrial development in this watershed, which contains a portion of the City of Camden. U.S. Hwy. 1 and U.S. Hwy. 521, together with I-20 provide the growth corridors. The interchange of I-20 and U.S. Hwy. 521 has a particularly high development potential. Sewer is provided to this area through a regional system located in Kershaw County.